



## COMPRESSOR DATA SHEET

In Accordance with Federal Uniform Test Method for Certain Lubricated Air Compressors

Rotary Compressor: Fixed Speed

| MODEL DATA - FOR COMPRESSED AIR |   |              |                         |
|---------------------------------|---|--------------|-------------------------|
| 1                               | Manufacturer: <b>Kaishan Compressor USA</b>   |              |                         |
| 2                               | Model Number: <b>KRSP-50-100</b>  | Date:        | <b>6/30/2020</b>        |
|                                 | <input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled      | Type:        | <b>Screw</b>            |
|                                 |   | # of Stages: | <b>1</b>                |
| 3*                              | Rated Capacity at Full Load Operating Pressure <sup>a, e</sup>                            | <b>240.0</b> | acfm <sup>a, e</sup>    |
| 4*                              | Full Load Operating Pressure <sup>b</sup>   | <b>100</b>   | psig <sup>b</sup>       |
| 5                               | Maximum Full Flow Operating Pressure <sup>c</sup>   | <b>100</b>   | psig <sup>c</sup>       |
| 6                               | Drive Motor Nominal Rating  | <b>50</b>    | hp                      |
| 7                               | Drive Motor Nominal Efficiency  | <b>93.2</b>  | percent                 |
| 8                               | Fan Motor Nominal Rating (if applicable)  | <b>2</b>     | hp                      |
| 9                               | Fan Motor Nominal Efficiency  | <b>88.5</b>  | percent                 |
| 10*                             | Total Package Input Power at Zero Flow <sup>e</sup>                                       | <b>10.1</b>  | kW <sup>e</sup>         |
| 11                              | Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup> | <b>42.83</b> | kW <sup>d</sup>         |
| 12*                             | Package Specific Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup>    | <b>17.84</b> | kW/100 cfm <sup>e</sup> |
| 13                              | Isentropic Efficiency   | <b>74.47</b> | Percent                 |

\*For models that are tested in the CAGI Performance Verification Program, these items are verified by the third party administrator.

Consult CAGI website for a list of participants in the third party verification program: [www.cagi.org](http://www.cagi.org)

NOTES:

- a. Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex C; ACFM is actual cubic feet per minute at inlet conditions.
- b. The operating pressure at which the Capacity (Item 3) and Electrical Consumption (Item 11) were measured for this data sheet.
- c. Maximum pressure attainable at full flow, usually the unload pressure setting for load/no load control or the maximum pressure attainable before capacity control begins. May require additional power.
- d. Total package input power at other than reported operating points will vary with control strategy.
- e. Tolerance is specified in ISO 1217, Annex C, as shown in table below:

NOTE: The terms "power" and "energy" are synonymous for purposes of this document.



Member

| Volume Flow Rate<br>at specified conditions |                       | Volume Flow Rate | Specific Energy<br>Consumption | No Load / Zero<br>Flow Power |
|---|-----------------------|------------------|--------------------------------|------------------------------|
| m <sup>3</sup> / min                        | ft <sup>3</sup> / min | %                | %                              | %                            |
| Below 0.5                                   | Below 17.6            | +/- 7            | +/- 8                          | +/- 10%                      |
| 0.5 to 1.5                                  | 17.6 to 53            | +/- 6            | +/- 7                          |                              |
| 1.5 to 15                                   | 53 to 529.7           | +/- 5            | +/- 6                          |                              |
| Above 15                                    | Above 529.7           | +/- 4            | +/- 5                          |                              |

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